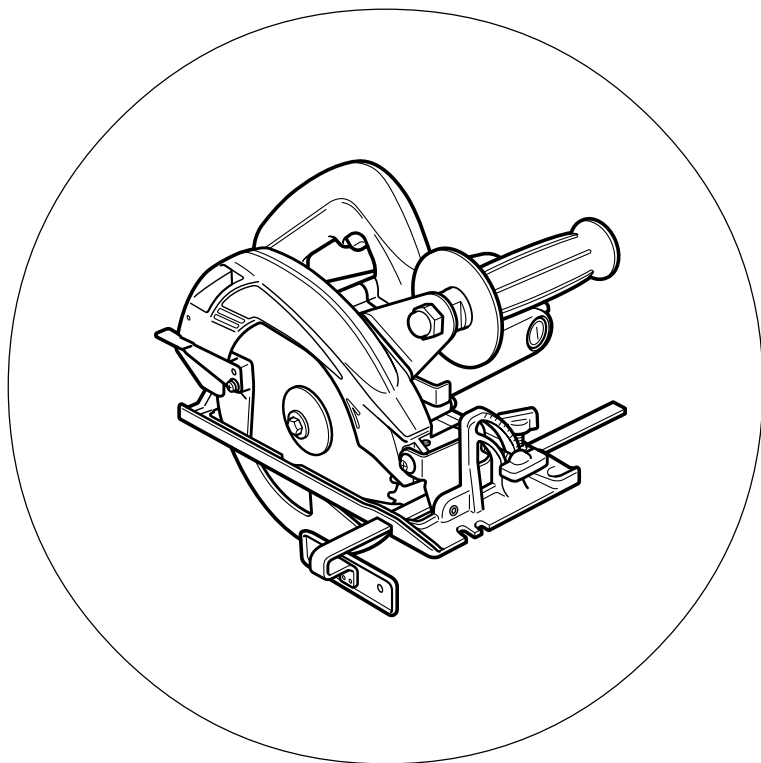


# HITACHI

## 电圆锯 Circular Saw

### C 7MFA

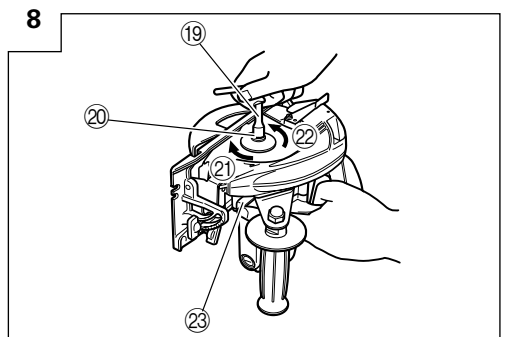
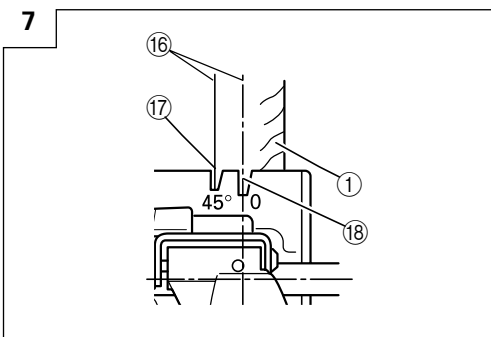
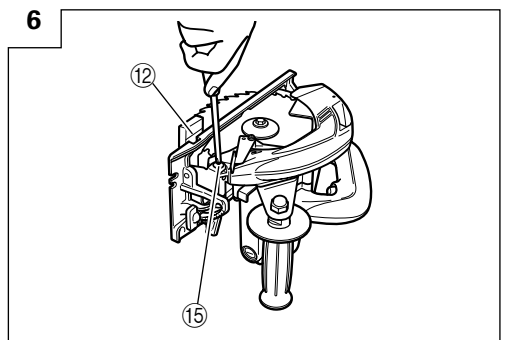
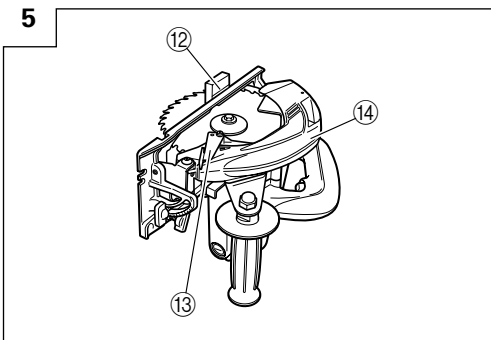
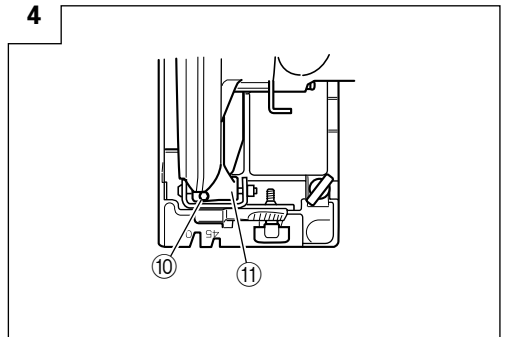
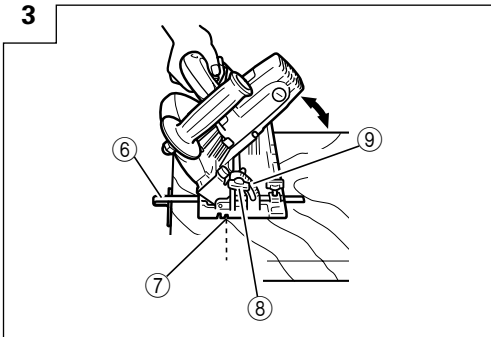
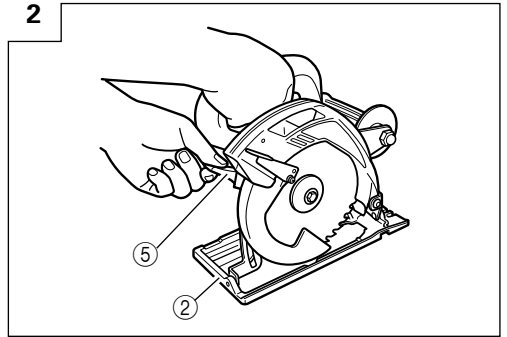
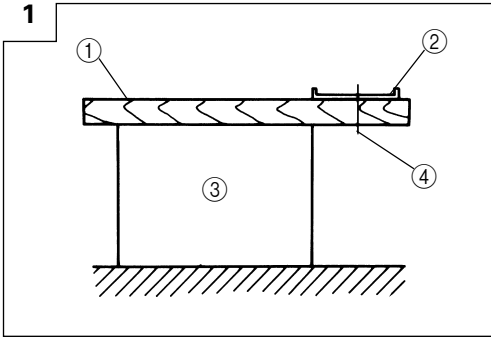
使用说明书  
Handling instructions



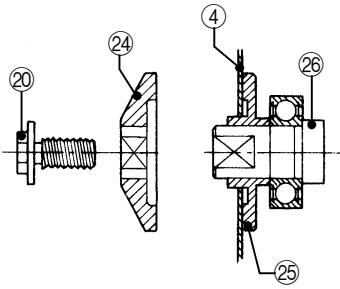
使用前务请详加阅读

Read through carefully and understand these instructions before use.

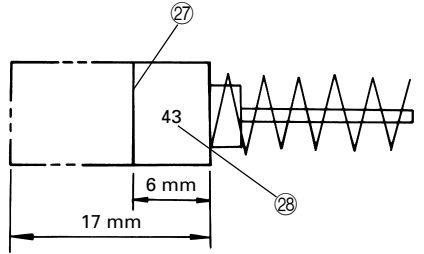
**Hitachi Koki**



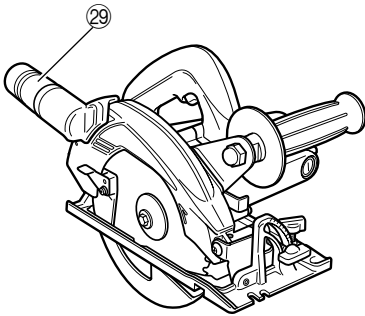
9



10



11



①	锯木	Lumber
②	底座	Base
③	工作台	Work bench
④	锯片	Saw blade
⑤	杆 (A)	Lever (A)
⑥	导向器	Guide
⑦	45度锯割位置	Cutting position at 45°
⑧	蝶形螺栓	Wing-bolt
⑨	尺寸	Scale
⑩	螺丝	Set screw
⑪	铰链部	Hinge part
⑫	标志	Marking
⑬	下部防护	Lower guard
⑭	锯罩	Saw cover
⑮	平行度调整螺丝	Parallel adjustment screw
⑯	标志线	Marking-off-line
⑰	45度倾斜时的前部尺度	Front scale at 45° incline
⑱	无倾斜时的前部尺度	Front scale when not inclined
⑲	套筒扳手	Box wrench
⑳	六角头螺栓	Hexagonal-head bolt
㉑	拧紧	Tighten
㉒	拧松	Loosen
㉓	压下锁紧杆	Depress the lock lever
㉔	垫圈 (B)	Washer (B)
㉕	垫圈 (A)	Washer (A)
㉖	主轴	Spindle
㉗	磨损极限	Wear limit
㉘	炭刷号	No. of carbon brush
㉙	集尘器	Dust collector

# 一般安全规则

## 警告！

### 阅读说明

没有按照以下列举的说明而使用或操作将导致触电、着火和/或严重伤害。

在所有以下列举的警告中术语“电动工具”指市电驱动（有线）电动工具或电池驱动（无线）电动工具。

### 保存这些说明

#### 1) 工作场地

- a) 保持工作场地清洁和明亮。  
混乱和黑暗的场地会引发事故。
- b) 不要在易爆环境，如有易燃液体、气体或粉尘的环境下操作电动工具。  
电动工具产生的火花会点燃粉尘或气体。
- c) 让儿童和旁观者离开后操纵电动工具。  
分心会使你放松控制。

#### 2) 电气安全

- a) 电动工具插头必须与插座相配。  
绝不能以任何方式改装插头。  
需接地的电动工具不能使用任何转换插头。  
未经改装的插头和相配的插座将减少触电危险。
- b) 避免人体接触接地表面，如管道、散热片和冰箱。  
如果你身体接地会增加触电危险。
- c) 不得将电动工具暴露在雨中或潮湿环境中。  
水进入电动工具将增加触电危险。
- d) 不得滥用电线。  
绝不能用电线搬运、拉动电动工具或拔出其插头。  
让电动工具远离热、油、锐边或运动部件。  
受损或缠绕的电线会增加触电危险。
- e) 当在户外使用电动工具时，使用适合户外使用的外接电线。  
适合户外使用的电线将减少触电危险。

#### 3) 人身安全

- a) 保持警觉，当操作电动工具时关注所从事的操作并保持清醒。  
切勿在有疲倦、药物、酒精或治疗反应下操作电动工具。  
在操作电动工具期间精力分散会导致严重人身伤害。
- b) 使用安全装置。始终配戴护目镜。  
安全装置，诸如适当条件下的防尘面具、防滑安全鞋、安全帽、听力防护等装置能减少人身伤害。
- c) 避免突然起动。  
确保开关在插入插头时处于关断位置。  
手指放在已接通电源的开关上或开关处于接通时插入插头可能会导致危险。

- d) 在电动工具接通之前，拿掉所有调节钥匙或扳手。  
遗留在电动工具旋转零件上的扳手或钥匙会导致人身伤害。

- e) 手不要伸得太长。  
时刻注意脚下和身体平衡。  
这样在意外情况下能很好地控制电动工具。

- f) 着装适当。  
不要穿宽松衣服或佩带饰品。  
让你的头发、衣服和袖子远离运动部件。  
宽松衣服、佩饰或长发可能会卷入运动部件。
- g) 如果提供了与排屑装置、集尘设备连接用的装置，则确保他们连接完好且使用得当。  
使用这些装置可减少碎屑引起的危险。

#### 4) 电动工具使用和注意事项

- a) 不要滥用电动工具，根据用途使用适当的电动工具。  
选用适当的设计额定值的电动工具会使你工作更有效、更安全。
- b) 如果开关不能接通或关断工具电源，则不能使用该电动工具。  
不能用开关来控制的电动工具是危险的且必须进行修理。
- c) 在进行任何调节、更换附件或贮存电动工具之前，必须从电源上拔掉插头和/或将电池盒断开电源。  
这种防护性措施将减少电动工具突然起动的危险。
- d) 将闲置电动工具贮存在儿童所及范围之外，并且不要让不熟悉电动工具或对这些说明不了解的人操作电动工具。  
电动工具在未经训练的用户手中是危险的。
- e) 保养电动工具。检查运动件的安装偏差或卡住、零件破损情况和影响电动工具运行的其他条件。  
如有损坏，电动工具必须在使用前修理好。  
许多事故由维护不良的电动工具引发。
- f) 保持切削刀具锋利和清洁。  
保养良好的有锋利切削刃的刀具不易卡住而且容易控制。
- g) 按照使用说明书以及打算使用的电动工具的特殊类型要求的方式，考虑作业条件和进行的作业来使用电动工具、附件和工具的刀头等。  
将电动工具用作那些与要求不符的操作可能会导致危险情况。

#### 5) 维修

- a) 将你的电动工具送交专业维修人员，必须使用同样的备件进行更换。  
这样将确保所维修的电动工具的安全性。

#### 注意事项

不可让儿童和体弱人士靠近工作场所。  
应将不使用的工具存放在儿童和体弱人士接触不到的地方。

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# 所有圆锯的安全说明

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危险：

- a) 让手始终远离锯割区域和锯片。你的另一只手始终握住辅助手柄或电动机机壳。  
如果双手都握住圆锯，就不会被锯片伤害。
- b) 不得接触工件的下面。  
护罩不能防止工件下方锯片的危险。
- c) 将锯割深度调至工件的厚度。  
能看到在工件下露出的锯齿应不到一个齿高。
- d) 不得手持工件或将工件架在腿上进行锯割，应将工件夹紧在一个稳定的平台上。  
适当支撑工件对减少人身伤害、锯片卡住或操作失控是至关重要的。
- e) 在锯割工具进行操作时有可能碰到暗线或自身电线的场合，须通过绝缘握持面来握住电动工具。  
碰到“带电”电线也会使工具的裸露金属部分带电，从而使操作者触电。
- f) 当作劈锯时，始终使用劈锯护栏和直边导向器。  
这样改善了锯割精度并减小了锯片卡住的几率。
- g) 始终使用尺寸和轴心形状（菱形或圆形）得当的锯片。  
如果锯片与圆锯夹装部件不符将引起偏心运转而导致失控。
- h) 不得使用损坏的和尺寸不符的垫圈和螺栓。  
为改善作业和安全运行，锯片垫圈及螺栓是为圆锯专门设计的。

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## 对各种圆锯的进一步安全说明

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回弹的原因和操作者防护：

- 回弹是当锯片受挤压、被卡住或偏离中心时的突然反作用，使圆锯不受控制地抬起并脱离工件冲向操作者。
- 当锯片受挤压或被收拢的切口紧紧卡住时，锯片堵转且电动机反作用力驱使整机朝操作者快速弹回。
- 如果锯片发生扭曲或偏离锯割面，锯片后边缘上的锯齿会挖入木材上表面从而引起锯片爬出切口并朝操作者回弹。

回弹是误用圆锯和/或不正确操作程序或条件导致的结果，采取以下适当预防措施可避免回弹。

- a) 双手紧握圆锯上的把手，双臂放置得能抵住回弹力。身体处于圆锯的任意一侧而不对准锯片。

回弹会导致圆锯的向后弹起，但如果采取了适当的防护措施，回弹力可以受操作者的控制。

- b) 当锯片卡住，或因任何原因导致的锯割中断时，释放开关扳机并握持圆锯在材料中不移动，直到锯片完全停止。不得在锯片处于运转或可能发生回弹情况下尝试将圆锯从工件中拿走或向后拉动圆锯。  
调查并采取正确的措施以消除锯片卡住的原因。
- c) 当在工件中重新起动圆锯时，将锯片对准切口并检查锯齿是否插入材料。  
如果锯片卡住了，工具重新起动时，锯片会爬出工件或从工件上回弹。
- d) 支撑大型板料以减少锯片受挤压和回弹的危害。  
大型板料因自重向下垂，支撑物必须放置在板料下面的两侧，靠近切割线和板料边缘都要放置。
- e) 不得使用钝的或破损的锯片。  
没有开锋的或安装不当的锯片会形成窄小的锯痕，从而导致剧烈摩擦、锯片卡住和回弹。
- f) 锯割之前，锯割深度和倾角调节锁定钮必须旋紧和紧固。  
如果锯割时锯片调节器发生移动，可能会引起锯片卡住和回弹。
- g) 当对现存墙体或其他盲区进行“插入式锯割”时要格外小心。  
伸出锯片可能会锯割到引起回弹的物体。

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## 带摆动式内护罩的圆锯的安全说明

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- a) 每次使用前，检查下护罩闭合是否自如。如果下护罩不能迅速回复，则不得操作圆锯。不得将下护罩夹住或系绑在开启位置。  
如果圆锯突然跌落，下护罩可能会弯曲变形，用回缩手柄抬起下护罩，确信在任何锯割角度和深度下护罩回缩自如，且不会触及锯片和任何其它零件。
- b) 检查下护罩弹簧的工作情况，如果护罩及弹簧不能正常工作，必须在使用前对其进行维修。  
下护罩可能因零件损害、胶质沉积或废屑堆积而运动迟缓。
- c) 仅当特殊锯割，例如“插入式锯割”和“组合式锯割”，才应用手动方式抬起下护罩。用回缩手柄抬起下护罩，锯片刚一进入到锯割材料就必须释放下护罩。  
对所有其他锯割作业，下护罩应自动回复。

- d) 在把圆锯放置在工作台或地上之前始终能看到下护罩是遮住锯片的。  
未经防护的、有惯性的锯片引起圆锯后退，锯割到其行程上的物体，要考虑到开关释放后锯片停下来的时间。

- 请勿按压圆盘侧面停止锯片操作。
- 经常保持锯片锋利。
- 确保下部防护移动顺畅自如。
- 请勿在电圆锯的下部防护被固定在打开位置的状态下使用电圆锯。
- 确保防护系统的收回机制正确操作。
- 请勿在锯片转向前面或转向侧面的状态下使用电圆锯。
- 确保工件上无铁钉等任何异物。
- 锯片宽度应在 190 毫米至 180 毫米之间。
- 不得使用任何砂轮。

## 使用电圆锯时应注意事项

- 请勿使用破损或变形的锯片。
- 请勿使用高速钢制造的锯片。
- 请勿使用不符合本说明书规定特性的锯片。

## 规格

电压（按地区）*	(110 伏、220 伏、230 伏、240 伏) ~	
锯切深度	90 度	68 毫米
	45 度	46 毫米
输入功率*	1010 瓦	
空载转速	5,500 / 分	
重量（不含线缆）	3.6 公斤	

\*当须改变地区时应检查产品上的铭牌。

## 标准附件

- 套筒扳手 ..... 1
  - 导向器 ..... 1
  - 蝶形螺栓 ..... 1
  - 六角条形扳手 ..... 1
- 标准附件可能不预先通告而径予更改。

## 选购附件（分开销售）

- 集尘器装置（D）  
连接抽吸软管，用真空吸尘器吸取锯屑（图 11）。
  - 垫圈（A） ..... 20 毫米（锯片的内径）  
..... 30 毫米（锯片的内径）
- 选购附件可能不预先通告而径予更改。

## 用途

- 锯割各种木材

## 作业之前

- 电源**  
确认所使用的电源与工具铭牌上标示的规格是否相符。
- 电源开关**  
确认电源开关是否切断。若电源开关接通，则插头插入电源插座时电动工具将出其不意地立刻转动，从而招致严重事故。
- 延伸线缆**  
若作业场所移到离开电源的地点，应使用容量足够、铠装合适的延伸线缆，并且要尽可能地短些。

**注意：**损坏和导线一定要更换或修理。

- 制备木质工作台：**（见图 1）  
锯片将露出锯木下面，所以锯割时，应将锯木放在工作台上。若用方木块作为工作台，则应选择平坦地面，以保持稳定。使用不稳定的工作台，工作时非常危险。

**注意：**为避免可能发生的安全事故，锯割后的锯木剩余部分栓住放妥。

## 使用前调整电动工具

### 1. 调整锯割深度

如图 2 所示，用一只手握住手柄，另一只手拧松旋钮。

可以通过将底座移到所需的位置来调整锯割深度。以这种方式调整锯割深度后重新拧紧旋钮。

### 2. 调整倾斜角度

如图 3 所示拧松斜规上的旋钮和底座上的蝶形螺栓，根据底座的情况，锯片可能倾斜至 45 度的最大角度。完成调整之后，确认旋钮和蝶形螺栓是否拧紧。

### 3. 调整导向器

拧松蝶形螺栓，将导向器左右移动，即可调整锯割位置。

导向器可以安装在左边或右边。

### 4. 平行度的微调

用平行度调整螺丝对底座侧面与锯齿的平行度进行调整。

出厂时已调整，但万一平行度出现偏差，请按下述方法进行调整。

- (1) 仅拧松锯罩铰链部的固定螺丝（见图 4）。
- (2) 将保护罩拉入锯罩中。
- (3) 将木片靠在锯片的底座后侧，在其朝底座侧的位置作上记号（见图 5）。
- (4) 将作上记号的木片移到底座前侧，转动平行度调整螺丝，使记号对准底座侧（见图 6）。
- (5) 调整后，拧紧固定螺丝。

**注意：**

调整平行度后，若调整锯切深度，平行度有时会出现偏差。

## 锯 割 步 骤

1. 将锯体（底座）放在锯木上，利用前部尺度将锯片对准标志线。锯片未倾斜时，参照右侧（图 7）。
2. 在锯片碰到锯木之前打开开关。  
扳动扳机开关就打开；松开扳机开关就关掉。

3. 以定速笔直移动电圆锯可进行最佳锯割。

**注意：**

- 在开始锯割之前，先确认锯片以达到全速转动。
- 工作中若锯片停止下来或发出异常噪声，应立即关掉开关。
- 随时注意不要让第一线靠近转动着的锯片。
- 锯片朝上或朝侧面使用电圆锯是非常危险的。这种不正常的用途应予避免。
- 锯割材料时，务请戴上护目镜。
- 完成作业时，应将插头从电源插座拔出。

## 锯 片 的 装 卸

**注意：**为了避免发生严重事故，务必将开关置于 OFF（断开）位置，并把电源切断。

### 1. 拆卸锯片：

- (1) 将锯割深度调到最大，把电圆锯放在坚硬位置上。（见图 8）
- (2) 压住锁紧杆，用附属的套筒扳手小心转动螺栓。
- (3) 锯轴固定时，反时针方向转动扳手拆下螺栓和垫圈（B）。
- (4) 握着下部防护旋钮时，把下部防护缩入锯盖内，取出锯片。

### 2. 安装锯片：

- (1) 按与拆卸相反顺序安装锯片。
- (2) 将主轴、垫圈等上面的切屑擦拭干净。
- (3) 如图 9 所示，带凸起中心的垫圈（A）侧，其直径和锯片的内径相同，而垫圈（B）的凹入侧必须和锯片侧一致。  
\* 2 种锯片附带了垫圈（A），其内径分别为 20 毫米和 30 毫米。（购买电圆锯时，随机附带有一种垫圈（A）。）  
如果您的锯片内径与垫圈（A）的内径不一致，请与您购买电圆锯的销售店联系。
- (4) 锯片应妥加安装，使锯片的箭头同锯盖上的箭头对准。
- (5) 尽量用手指拧紧固定锯片的六角头螺栓。然后压下锁紧杆，锁住主轴，并拧紧螺栓。



**注意：**

- 若使用附件以外的扳手，螺栓不能拧紧，故务必使用附属的扳手。
- 连接电源线之前，应先检查锁紧杆回到原来位置，锯片转动平顺。

**改造：**

日立牌电动工具经常加以改善和改造以采用最新的先进技术。

因此，某些零部件〔例如代码号和〔或〕设计〕可能变更，恕不另行通知。

**注意：**为求改进，本手册所载规格可能不预先通告而径予更改。

## 维 护 和 检 查

### 1. 检查锯片

使用钝锯片将会导致电动机故障，降低工作效率，故发现磨损时应尽快加以磨快或更换新的。

### 2. 检查安装螺钉

要经常检查安装螺钉是否紧固妥善。若发现螺钉松了，应立即重新扭紧，否则会导致严重的事故。

### 3. 检查碳刷（图 10）

马达使用碳刷，它是消耗部品，因为使用过久的碳刷将会导致马达故障，用具有相同碳刷号的新碳刷去更换旧的，碳刷编号用数字表示碳刷何时用旧或接近于磨损极限，此外，要经常保持碳刷清洁以及保证它在刷握里能自由滑动。

### 4. 更换碳刷

用无头螺丝刀卸下碳刷盖，然后可以很容易地取下碳刷。

### 5. 电动机的维护

电动机绕线是电动工具的“心脏部”。应仔细检查有无损伤，是否被油液或水沾湿。

### 6. 维修零部件一览表

- A：项目号
- B：代码号
- C：使用数
- D：备注

**注意：**

日立牌电动工具的维修、改造和检查须由经日立公司授权的维修中心进行。

当要求维修或其他保养服务时，若将此零部件一览表与电动工具一起呈交给经日立公司授权的维修中心，将有助于维修或保养工作。

在操作和维修电动工具时，必须遵守贵国制定的安全的有关规则和标准。

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## GENERAL SAFETY RULES

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### WARNING!

#### Read all instructions

Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

The term "power tool" in all of the warnings listed below refers to your mains operated (corded) power tool or battery operated (cordless) power tool.

#### SAVE THESE INSTRUCTIONS

##### 1) Work area

- a) **Keep work area clean and well lit.**  
*Cluttered and dark areas invite accidents.*
- b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.**  
*Power tools create sparks which may ignite the dust of fumes.*
- c) **Keep children and bystanders away while operating a power tool.**  
*Distractions can cause you to lose control.*

##### 2) Electrical safety

- a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.**  
*Unmodified plugs and matching outlets will reduce risk of electric shock.*
- b) **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.**  
*There is an increased risk of electric shock if your body is earthed or grounded.*
- c) **Do not expose power tools to rain or wet conditions.**  
*Water entering a power tool will increase the risk of electric shock.*
- d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.**  
*Damaged or entangled cords increase the risk of electric shock.*
- e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.**  
*Use of a cord suitable for outdoor use reduces the risk of electric shock.*

##### 3) Personal safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.**  
*A moment of inattention while operating power tools may result in serious personal injury.*
- b) **Use safety equipment. Always wear eye protection.**  
*Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.*
- c) **Avoid accidental starting. Ensure the switch is in the off position before plugging in.**  
*Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.*

- d) **Remove any adjusting key or wrench before turning the power tool on.**  
*A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*

- e) **Do not overreach. Keep proper footing and balance at all times.**

*This enables better control of the power tool in unexpected situations.*

- f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.**

*Loose clothes, jewellery or long hair can be caught in moving parts.*

- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.**

*Use of these devices can reduce dust related hazards.*

##### 4) Power tool use and care

- a) **Do not force the power tool. Use the correct power tool for your application.**

*The correct power tool will do the job better and safer at the rate for which it was designed.*

- b) **Do not use the power tool if the switch does not turn it on and off.**

*Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*

- c) **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.**

*Such preventive safety measures reduce the risk of starting the power tool accidentally.*

- d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.**

*Power tools are dangerous in the hands of untrained users.*

- e) **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation.**

**If damaged, have the power tool repaired before use.**

*Many accidents are caused by poorly maintained power tools.*

- f) **Keep cutting tools sharp and clean.**

*Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*

- g) **Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.**

*Use of the power tool for operations different from intended could result in a hazardous situation.*

##### 5) Service

- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.**

*This will ensure that the safety of the power tool is maintained.*

### PRECAUTION

Keep children and infirm persons away.

When not in use, tools should be stored out of reach of children and infirm persons.

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## SAFETY INSTRUCTIONS FOR ALL SAWS

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### DANGER!

- a) **Keep hands away from cutting area and the blade. Keep your second hand on auxiliary handle, or motor housing.**  
*If both hands are holding the saw, they cannot be cut by the blade.*
  - b) **Do not reach underneath the workpiece.**  
*The guard cannot protect you from the blade below the workpiece.*
  - c) **Adjust the cutting depth to the thickness of the workpiece.**  
*Less than a full tooth of the blade teeth should be visible below the workpiece.*
  - d) **Never hold piece being cut in your hands or across your leg. Secure the workpiece to a stable platform. It is important to support the work properly to minimize body exposure, blade binding, or loss of control.**
  - e) **Hold power tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.**  
*Contact with a "live" wire will also make exposed metal parts of the power tool "live" and shock the operator.*
  - f) **When ripping always use a rip fence or straight edge guide.**  
*This improves the accuracy of cut and reduces the chance of blade binding.*
  - g) **Always use blades with correct size and shape (diamond versus round) of arbour holes.**  
*Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.*
  - h) **Never use damaged or incorrect blade washers or bolt.**  
*The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.*
- **Never use any abrasive wheels**  
*Burst of abrasive wheel cause serious injury of operator or persons around the working area.*

---

## FURTHER SAFETY INSTRUCTIONS FOR ALL SAWS

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Causes and operator prevention of kickback:

- kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator;
- when the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator;
- if the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator.

Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- a) **Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body either side of the blade, but not in line with the blade.**

*Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.*

- b) **When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop.**  
**Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur.**  
*Investigate and take corrective actions to eliminate the cause of blade binding.*
- c) **When restarting a saw in the workpiece, center the saw blade in the kerf and check that saw teeth are not engaged into the material.**  
*If saw blade is binding, it may walk up or kickback from the workpiece as the saw is restarted.*
- d) **Support large panels to minimize the risk of blade pinching and kickback.**  
*Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.*
- e) **Do not use dull or damaged blades.**  
*Sharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.*
- f) **Blade depth and bevel adjusting locking levers must be tight and secure before making cut.**  
*If blade adjustment shifts while cutting, it may cause binding and kickback.*
- g) **Use extra caution when making a "plunge cut" into existing walls or other blind areas.**  
*The protruding blade may cut objects that can cause kickback.*

---

## SAFETY INSTRUCTIONS FOR SAWS WITH INNER PENDULUM GUARD

---

- a) **Check lower guard for proper closing before each use. Do not operate the saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position.**  
*If saw is accidentally dropped, lower guard may be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depth of cut.*
- b) **Check the operation of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use.**  
*Lower guard may operate sluggishly due to damaged parts, gummy deposits, or build-up of debris.*
- c) **Lower guard should be retracted manually only for special cuts such as "plunge cuts" and "compound cuts". Raise lower guard by retracting handle and as soon as blade enters the material, the lower guard must be released.**  
*For all other sawing, the lower guard should operate automatically.*
- d) **Always observe that the lower guard is covering the blade before placing saw down on bench or floor.**  
*An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.*

## PRECAUTIONS ON USING CIRCULAR SAW

1. Do not use saw blades which are deformed or cracked.
2. Do not use saw blades made of high speed steel.
3. Do not use saw blades which do not comply with the characteristics specified in these instructions.
4. Do not stop the saw blades by lateral pressure on the disc.
5. Always keep the saw blades sharp.
6. Ensure that the lower guard moves smoothly and freely.

7. Never use the circular saw with its lower guard fixed in the open position.
8. Ensure that the retraction mechanism of the guard system operates correctly.
9. Never operate the circular saw with the saw blade turned upward or to the side.
10. Ensure that the material is free of foreign matter such as nails.
11. The saw blades range should be from 190 mm to 180 mm.
12. Do not use any abrasive wheel.

## SPECIFICATIONS

Voltage (by areas)*		(110 V, 220 V, 230 V, 240 V) ~
Cutting Depth	90°	68 mm
	45°	46 mm
Input		1010 W*
No-Load Speed		5500/min
Weight (without cord)		3.6 kg

\*Be sure to check the nameplate on product as it is subject to change by areas.

## STANDARD ACCESSORIES

- (1) Box Wrench ..... 1
  - (2) Guide ..... 1
  - (3) Wing-bolt ..... 1
  - (4) Hex. Bar wrench ..... 1
- Standard accessories are subject to change without notice.

## OPTIONAL ACCESSORIES (sold separately)

- (1) Dust Collector Set (D)  
Connect the suction hose to collect saw dust with the vacuum cleaner (see Fig. 11).
  - (2) Washer (A) ..... for 20 mm (Inner dia. of saw blade)  
..... for 30 mm (Inner dia. of saw blade)
- Optional accessories are subject to change without notice.

## APPLICATION

Cutting various types of wood.

## PRIOR TO OPERATION

- 1. Power source**  
Ensure that the power source to be utilized conforms to the power requirements specified on the product nameplate.
- 2. Power switch**  
Ensure that the power switch is in the OFF position. If the plug is connected to a receptacle while the power switch is in the ON position, the power tool will start operating immediately, inviting serious accident.
- 3. Extension cord**  
When the work area is removed from the power source, use an extension cord of sufficient thickness and rated capacity. The extension cord should be kept as short as practicable.

### CAUTION:

Damaged cord must be replaced or repaired.

#### 4. Prepare a wooden workbench. (Fig. 1)

Since the saw blade will extend beyond the lower surface of the lumber, place the lumber on a workbench when cutting. If a square block is utilized as a workbench, select level ground to ensure it is properly stabilized. An unstable workbench will result in hazardous operation.

### CAUTION:

To avoid possible accident, always ensure that the portion of lumber remaining after cutting is securely anchored or held in position.

## ADJUSTING THE POWER TOOL PRIOR TO USE

#### 1. Adjusting the cutting depth

As shown in Fig. 2, hold the handle with one hand while loosening the knob with the other.

The cutting depth can be adjusted by moving the base to the desired position. In such manner adjust the cutting depth and then securely retighten the knob.

#### 2. Adjusting the angle of inclination

As shown in Fig. 3 by loosening the knob on the incline gauge and the wing-bolt on the base, the saw blade may be inclined to a maximum angle of 45° in relation to the base. After having completed the adjustment, reconfirm that the knob and the wing-bolt are firmly tightened.

#### 3. Regulating the guide

The cutting position can be regulated by moving the guide to the left or right after loosening its wing bolt. The guide can be mounted on either the left or the right sides.

#### 4. Fine tuning of parallelism

It is possible to fine-tune the parallelism of the saw blade to the base using the parallelism adjustment screw.

Adjustment has already been made at the time of shipment from the factory. However, in the unlikely event of parallelism being faulty, adjust as follows.

- (1) Unfasten only the mounting screws of the saw cover hinge portion (Fig. 4).
- (2) Retract the protective cover into the saw cover.
- (3) Insert wood chip in the rear side of the saw blade base, and mark the position on the base (Fig. 5).
- (4) Move the marked wood chip to the front of the base, and turn the parallelism adjustment screw so that the marking corresponds to the base side (Fig. 6).
- (5) After adjustment, fasten the mounting screws tightly in place.

#### NOTE

- Parallelism may be slightly faulty if the cutting depth is adjusted after parallelism adjustment.

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### CUTTING PROCEDURES

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1. Place the saw body (base) on the lumber, and align the marked off line with the saw blade by use of the front scale. When the saw blade is not inclined, the right-hand side is the reference (Fig. 7).
2. Turn ON the switch before the saw blade contacts the lumber. The switch is turned ON when the trigger is squeezed, and turned OFF when the trigger is released.
3. Moving the saw straight at a constant speed will produce optimum cutting.

#### CAUTIONS:

- Before starting to saw, confirm that the saw blade has attained full-speed revolution.
- Should the saw blade be stopped or made an abnormal noise while operating, promptly turn OFF the switch.
- Always take care in preventing the power cord from coming near to the revolving saw blade.
- Using the Circular Saw with the saw blade facing upwards or sideways is very hazardous. Such uncommon applications should be avoided.
- When cutting material, always wear eye protection.
- When finished a job, disconnect the plug from the receptacle.

---

### MOUNTING AND DISMOUNTING THE SAW BLADE

---

#### CAUTION:

To avoid serious accident, ensure that the switch is in the OFF position, and the power source is disconnected.

#### 1. Dismounting the saw blade

- (1) Set the cutting depth to maximum and place the circular saw on a stable place. (Fig. 8)
- (2) Keeping the lock lever depressed, carefully turn the hexagonal-head bolt with the box wrench.
- (3) When the saw shaft is fixed, turn the wrench counterclockwise to remove bolt and washer (B).
- (4) While gripping the lower guard knob, retract the lower guard into the saw cover and take out the saw blade.

#### 2. Mounting the saw blade

- (1) Install the saw blade in the reverse order to removal.
- (2) Wipe off the swarf from the spindle, washer, etc.
- (3) As shown in Fig. 9, the side of Washer (A) with a projected center the same diameter as the inner diameter of the saw blade and the concave side of Washer (B) must be fitted to the saw blade sides.  
\* Washer (A) is supplied for 2 types of saw blades with the inner diameters of 20 mm and 30 mm. (When buying the Circular Saw, one type of washer (A) is supplied.)  
In case the inner diameter of your saw blade does not correspond to that of Washer (A), please contact the shop where you purchased the Circular Saw.
- (4) The saw blade should be installed so that the arrow in the saw blade is aligned with the arrow on the saw cover.
- (5) Using the fingers, tighten the hexagonal-head bolt retaining the saw blade as much as possible. Then depress the lock lever, lock the spindle, and thoroughly tighten the bolt.

#### CAUTIONS:

- If a wrench other than the one supplied is used, the bolt cannot be tightened correctly. Always use the supplied wrench.
- Before connecting the power plug, check that the lock lever is returned to its original position and the saw blade rotates smoothly.

---

### MAINTENANCE AND INSPECTION

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#### 1. Inspecting the saw blade

Since use of a dull saw blade will cause motor malfunctioning and degraded efficiently, replace with a new one without delay if abrasion is noted.

#### 2. Inspecting the mounting screws

Regularly inspect all mounting screws and ensure that they are properly tightened. Should any of the screws be loose, retighten them immediately. Failure to do so could result in serious hazard.

#### 3. Inspecting the carbon brushes (Fig. 10)

The motor employs carbon brushes which are consumable parts. Since an excessively worn carbon brush could result in motor trouble, replace the carbon brushes with new ones which have the same carbon brush No. shown in the figure when they become worn to or near the "wear limit". In addition, always keep carbon brushes clean and ensure that they slide freely within the brush holders.

#### 4. Replacing carbon brushes

Disassemble the brush caps with a slotted-head screwdriver. The carbon brushes can then be easily removed.

#### 5. Maintenance of the motor

The motor unit winding is the very "heart" of the power tool. Exercise due care to ensure the winding does not become damaged and/or wet with oil or water.

#### 6. Service parts list

- A : Item No.
- B : Code No.
- C : No. Used
- D : Remarks

**CAUTION**

Repair, modification and inspection of Hitachi Power Tools must be carried out by an Authorized Service Center.

This Parts List will be helpful if presented with the power tool to the Authorized Service Center when requesting repair or other maintenance.

In the operation and maintenance of power tools, the safety regulations and standards prescribed in each country must be observed.

**MODIFICATIONS**

Hitachi Power Tools are constantly being improved and modified to incorporate the latest technological advancements.

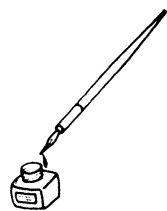
Accordingly, some parts (i.e. code numbers and/or design) may be changed without prior notice.

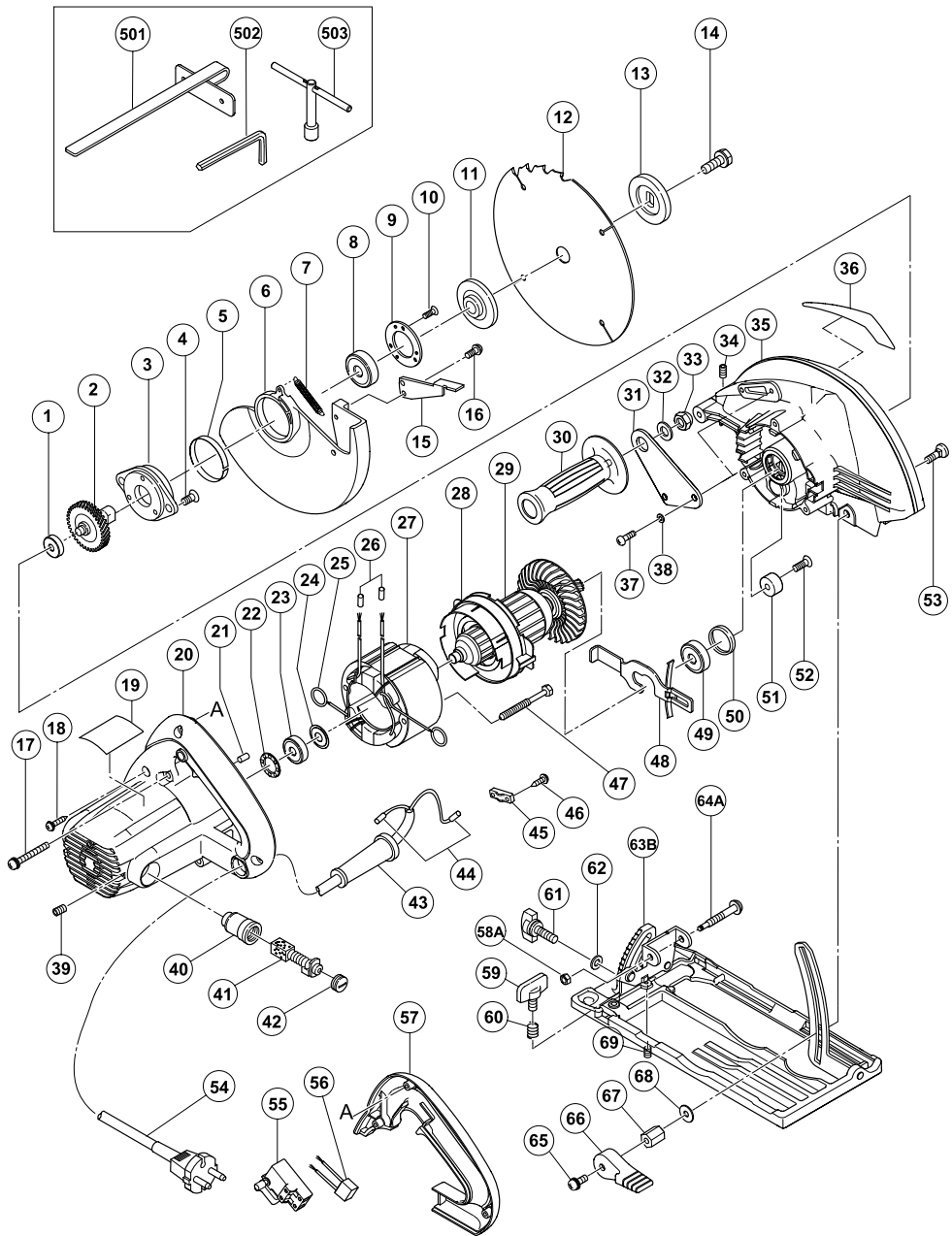
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**NOTE**

Due to HITACHI's continuing program of research and development, the specifications herein are subject to change without prior notice.

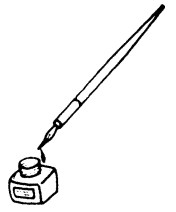
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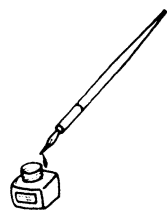






A	B	C	D	A	B	C	D
1	963803	1		58A	308387	1	
2	322088	1		59	307898	1	M6×18
3	308361	1		60	941056	1	
4	305568	2	M5×12	61	307937	1	
5	318192	1		62	948167	1	M6
6	323921	1		63B	330840	1	"58-64"
7	302442	1		64A	322096	1	
8	6002VV	1	6002VVCMP2L	65	322260	1	M6×14
9	308362	1		66	323923	1	
10	308773	3	M3×12	67	323922	1	
11	323928	1		68	320975	1	
12	323894	1		69	308109	1	M6×8
13	323924	1		501	302756	1	
14	957749	1	M7×17.5	502	990666	1	2.5MM
15	302464	1		503	940543	1	10MM
16	304043	1	M4×10				
17	302434	3	M5×45				
18	301653	3	D4×20				
19	_____	1					
20	323929	1	"39, 40"				
21	931701	1					
22	316394	1					
23	608VVM	1	608VVC2PS2L				
24	982631	1					
25	930703	2					
26	981373	2					
27-1	340614C	1	110V "25"				
27-2	340614E	1	230V "25"				
27-3	340614F	1	240V "25"				
28	322002	1					
29-1	360694C	1	110V				
29-2	360694E	1	230V				
29-3	360694F	1	240V				
30	323925	1	"31-33"				
31	323926	1					
32	949458	1	M10				
33	323927	1	M10				
34	962782	1	M5×6				
35	323919	1	"50-52"				
36	_____	1					
37	949237	2	M5×12				
38	949454	2	M5				
39	938477	2	M5×8				
40	957051	2					
41	999043	2					
42	935829	2					
43	953327	1					
44	981373	2					
45	937631	1					
46	984750	2	D4×16				
47	953174	2	D5×55				
48	307918	1					
49	6000VV	1	6000VVCMP2L				
50	318647	1					
51	961729	1					
52	949794	1	M6×20				
53	942808	1	M6×20				
54	500234Z	1					
55	963756Z	1					
56	930039	1					
57	323931	1					





服务中心

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